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LOGINID:SSPTAJHM1624

PASSW0 TERMIN		TER 1	, 2, 3, OR ?):2
* * *	* * * *	* * *	* Welcome to STN International * * * * * * * * *
NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2 JAI	1 02	STN pricing information for 2008 now available
NEWS	3 JAI	1 16	CAS patent coverage enhanced to include exemplified prophetic substances
NEWS	4 JAI	1 28	USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats
NEWS	5 JAI	1 28	MARPAT searching enhanced
NEWS	6 JAI	1 28	USGENE now provides USPTO sequence data within 3 days of publication
NEWS	7 JAI	1 28	TOXCENTER enhanced with reloaded MEDLINE segment
NEWS		1 28	
NEWS		3 08	
NEWS	10 FEI	3 20	
NEWS		3 25	IFIREF reloaded with enhancements
NEWS	12 FE	3 25	IMSPRODUCT reloaded with enhancements
NEWS	13 FE	3 29	WPINDEX/WPIDS/WPIX enhanced with ECLA and current U.S. National Patent Classification
NEWS	14 MAI	31	IFICDB, IFIPAT, and IFIUDB enhanced with new custom IPC display formats
NEWS	15 MAI	R 31	CAS REGISTRY enhanced with additional experimental
NEWS	16 MAI	31	spectra CA/CAplus and CASREACT patent number format for U.S. applications updated
NEWS	17 MNI	31	LPCI now available as a replacement to LDPCI
NEWS		31	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS		2 04	STN AnaVist, Version 1, to be discontinued
NEWS		R 15	WPIDS, WPINDEX, and WPIX enhanced with new
			predefined hit display formats
NEWS		28	
NEWS		28	
NEWS		7 30	INPAFAMDB now available on STN for patent family searching
NEWS	24 MA	7 30	DGENE, PCTGEN, and USGENE enhanced with new homology sequence search option
NEWS	25 JUI	1 06	EPFULL enhanced with 260,000 English abstracts
NEWS	26 JUI	1 06	KOREAPAT updated with 41,000 documents
NEWS	27 Jui	1 13	USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications
NEWS	EXPRES		RUARY 08 CURRENT WINDOWS VERSION IS V8.3, CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008
	HOURS		N Operating Hours Plus Help Desk Availability cloome Banner and News Items
	IPC8		or general information regarding STN implementation of IPC 8

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FILE 'HOME' ENTERED AT 16:06:21 ON 16 JUN 2008

=> file registry

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DICTIONARY FILE UPDATES: 15 JUN 2008 HIGHEST RN 1028329-25-0

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http://www.cas.org/support/stngen/stndoc/properties.html

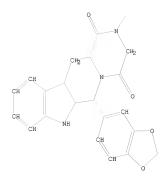
Uploading C:\Program Files\Stnexp\Queries\10 series\10521393\10521393a.str

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18 19 20
ring nodes :
27 28 29
chain bonds :
13-21 14-18 15-20 17-19
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 7-10 8-9 8-13 10-11 11-12 11-14
12-13 12-17 14-15 15-16 16-17 21-22 21-26 22-23 23-24 23-27 24-25 24-29
25-26 27-28 28-29
exact/norm bonds :
5-7 6-9 7-8 7-10 8-9 8-13 10-11 11-12 11-14 12-13 12-17 13-21 14-15
14-18 15-16 15-20 16-17 17-19 23-27 24-29 27-28 28-29
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 21-22 21-26 22-23 23-24 24-25 25-26
```

Match level: 1:Atom 2:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:CLASS 20:CLASS 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom

L1 STRUCTURE UPLOADED

=> d l1 L1 HAS NO ANSWERS L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 11
SAMPLE SEARCH INITIATED 16:06:56 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 26 TO ITERATE

100.0% PROCESSED 26 ITERATIONS 0 ANSWERS SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
PROJECTED ITERATIONS: 215 TO 825
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s 11 full FULL SEARCH INITIATED 16:07:00 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 568 TO ITERATE

100.0% PROCESSED 568 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

L3 0 SEA SSS FUL L1

Uploading C:\Program Files\Stnexp\Queries\10 series\10521393\10521393b.str

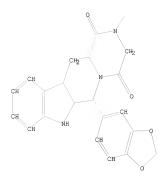
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18 19 20
ring nodes :
27 28 29
chain bonds :
13-21 14-18 15-20 17-19
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 7-10 8-9 8-13 10-11 11-12 11-14
12-13 12-17 14-15 15-16 16-17 21-22 21-26 22-23 23-24 23-27 24-25 24-29
25-26 27-28 28-29
exact/norm bonds :
1-2 \quad 1-6 \quad 2-3 \quad 3-4 \quad 4-5 \quad 5-6 \quad 5-7 \quad 6-9 \quad 7-8 \quad 7-10 \quad 8-9 \quad 8-13 \quad 10-11 \quad 11-12 \quad 11-14
12-13 12-17 13-21 14-15 14-18 15-16 15-20 16-17 17-19 23-27 24-29 27-28
28-29
normalized bonds :
21-22 21-26 22-23 23-24 24-25 25-26
```

Match level: 1:Atom 2:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:CLASS 20:CLASS 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom 27:Atom 28:Atom 28:Ato

L4 STRUCTURE UPLOADED

=> d 11 L1 HAS NO ANSWERS L1 STR

chain nodes :



Structure attributes must be viewed using STN Express query preparation.

=> s 11
SAMPLE SEARCH INITIATED 16:08:17 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 26 TO ITERATE

100.0% PROCESSED 26 ITERATIONS 0 ANSWERS SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
PROJECTED ITERATIONS: 215 TO 825
PROJECTED ANSWERS: 0 TO 0

L5 0 SEA SSS SAM L1

=> s 11 full FULL SEARCH INITIATED 16:08:21 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 568 TO ITERATE

100.0% PROCESSED 568 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

L6 0 SEA SSS FUL L1

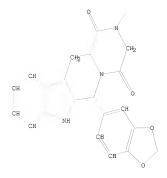
Uploading C:\Program Files\Stnexp\Queries\10 series\10521393\10521393b.str

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chain nodes :
18 19 20
ring nodes :
27 28 29
chain bonds :
13-21 14-18 15-20 17-19
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 7-10 8-9 8-13 10-11 11-12 11-14
12-13 12-17 14-15 15-16 16-17 21-22 21-26 22-23 23-24 23-27 24-25 24-29
25-26 27-28 28-29
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 7-10 8-9 8-13 10-11 11-12 11-14
12-13 12-17 13-21 14-15 14-18 15-16 15-20 16-17 17-19 23-27 24-29 27-28
28-29
normalized bonds :
21-22 21-26 22-23 23-24 24-25 25-26
```

Match level: 1:Atom 2:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:CLASS 20:CLASS 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom 27:Atom 28:Atom 28:Ato

L7 STRUCTURE UPLOADED

=> d 17 L7 HAS NO ANSWERS L7 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 17 full FULL SEARCH INITIATED 16:09:27 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED -568 TO ITERATE

100.0% PROCESSED 568 ITERATIONS 395 ANSWERS SEARCH TIME: 00.00.01

L8 395 SEA SSS FUL L7

SAMPLE SEARCH INITIATED 16:09:30 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED -

100.0% PROCESSED 26 ITERATIONS 16 ANSWERS SEARCH TIME: 00.00.01

26 TO ITERATE

FULL FILE PROJECTIONS: ONLINE **COMPLETE** BATCH **COMPLETE** PROJECTED ITERATIONS: 215 TO 825 PROJECTED ANSWERS: 80 TO 560

L9 16 SEA SSS SAM L7

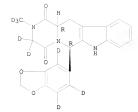
=> d scan

=> s 17

16 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN L9

IN Pyrazino[1', 2':1,6]pyrido[3,4-b]indole-1,4-dione-3-d, 6-(1,3-benzodioxol-5yl-4,6,7-d3)-2,3,6,7,12,12a-hexahydro-3-d-2-(methyl-d3)-, (6R,12aR)-ME C22 H11 D8 N3 O4

Absolute stereochemistry.



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> file caplus COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE ENTRY 536.00

TOTAL SESSION 536.21

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FILE COVERS 1907 - 16 Jun 2008 VOL 148 ISS 25 FILE LAST UPDATED: 15 Jun 2008 (20080615/ED)

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=> s 18 L10 544 L8

=>

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* * * * * * * * * * * Welcome to STN International
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                 Web Page for STN Seminar Schedule - N. America
NEWS 2 JAN 02
                 STN pricing information for 2008 now available
NEWS 3 JAN 16
                 CAS patent coverage enhanced to include exemplified
                 prophetic substances
NEWS 4
         JAN 28
                 USPATFULL, USPAT2, and USPATOLD enhanced with new
                 custom IPC display formats
NEWS 5
         JAN 28 MARPAT searching enhanced
         JAN 28 USGENE now provides USPTO sequence data within 3 days
                 of publication
NEWS 7
         JAN 28
                 TOXCENTER enhanced with reloaded MEDLINE segment
NEWS 8
         JAN 28 MEDLINE and LMEDLINE reloaded with enhancements
NEWS 9
         FEB 08 STN Express, Version 8.3, now available
NEWS 10 FEB 20 PCI now available as a replacement to DPCI
NEWS 11 FEB 25
                 IFIREF reloaded with enhancements
NEWS 12
         FEB 25
                 IMSPRODUCT reloaded with enhancements
NEWS 13 FEB 29
                 WPINDEX/WPIDS/WPIX enhanced with ECLA and current
                 U.S. National Patent Classification
NEWS 14 MAR 31
                 IFICDB, IFIPAT, and IFIUDB enhanced with new custom
                 IPC display formats
NEWS 15 MAR 31
                 CAS REGISTRY enhanced with additional experimental
                 spectra
NEWS 16 MAR 31
                 CA/CAplus and CASREACT patent number format for U.S.
                 applications updated
NEWS 17 MAR 31
                 LPCI now available as a replacement to LDPCI
NEWS 18 MAR 31 EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS 19
         APR 04 STN AnaVist, Version 1, to be discontinued
NEWS 20
         APR 15 WPIDS, WPINDEX, and WPIX enhanced with new
                 predefined hit display formats
NEWS 21 APR 28 EMBASE Controlled Term thesaurus enhanced
NEWS 22 APR 28 IMSRESEARCH reloaded with enhancements
NEWS 23 MAY 30 INPAFAMDB now available on STN for patent family
                 searching
NEWS 24 MAY 30 DGENE, PCTGEN, and USGENE enhanced with new homology
                 sequence search option
NEWS 25 JUN 06 EPFULL enhanced with 260,000 English abstracts
NEWS 26 JUN 06 KOREAPAT updated with 41,000 documents
NEWS 27 JUN 13 USPATFULL and USPAT2 updated with 11-character
                 patent numbers for U.S. applications
NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,
             AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008
NEWS HOURS
              STN Operating Hours Plus Help Desk Availability
NEWS LOGIN
              Welcome Banner and News Items
NEWS IPC8
              For general information regarding STN implementation of IPC 8
Enter NEWS followed by the item number or name to see news on that
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* * * * * * * * * * * * * * * * STN Columbus * *

FILE 'HOME' ENTERED AT 16:40:15 ON 16 JUN 2008

=> file registry

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SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

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=>

Uploading C:\Program Files\Stnexp\Queries\10 series\10521393\10521393b.str

chain nodes: 18 19 20 ring nodes: 1 2 3 4 5

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 21 22 23 24 25 26 27 28 29

chain bonds :

13-21 14-18 15-20 17-19

ring bonds :

exact/norm bonds :

normalized bonds :

21-22 21-26 22-23 23-24 24-25 25-26

Match level :

 1:Atom
 2:Atom
 3:Atom
 4:Atom
 5:Atom
 6:Atom
 7:Atom
 8:Atom
 9:Atom
 10:Atom

 11:Atom
 12:Atom
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 15:Atom
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 21:Atom
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 23:Atom
 24:Atom
 25:Atom
 26:Atom
 27:Atom
 28:Atom

L1 STRUCTURE UPLOADED

=> s 11

SAMPLE SEARCH INITIATED 16:41:03 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 26 TO ITERATE

100.0% PROCESSED 26 ITERATIONS

16 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS:

215 TO 825

PROJECTED ANSWERS:

80 TO 560

L2 16 SEA SSS SAM L1

=> s 11 full

FULL SEARCH INITIATED 16:41:08 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 568 TO ITERATE

100.0% PROCESSED 568 ITERATIONS

395 ANSWERS

SEARCH TIME: 00.00.01

L3 395 SEA SSS FUL L1

=> file caplus

 COST IN U.S. DOLLARS
 SINCE FILE ENTRY SESSION FULL ESTIMATED COST
 TOTAL 178.36

 FULL ESTIMATED COST
 178.36
 178.57

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=> s 13 and (pd<=20030403 or ad<=20030403 or prd<=20030403)
           544 L3
      23714354 PD<=20030403
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          1593 TRYPTOPHANS
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             2 L4 AND TETRAHYDROFURAN
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     ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
L6
AN
     2004:101164 CAPLUS
DN
     140:146170
     Preparation of tetrahydro-β-carboline diastereomers by modified
     Pictet-Spengler reaction
     Orme, Mark W.; Martinelli, Michael John; Doecke, Christopher William;
     Pawlak, Joseph Matthew; Chelius, Erik Christopher
PA
     Lilly Icos, LLC, USA
SO
     PCT Int. Appl., 37 pp.
     CODEN: PIXXD2
    Patent
LA
    English
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FAN.CNT 1
   PATENT NO. KIND DATE APPLICATION NO. DATE
   WO 2004011463 A1 20040205 WO 2003-US22039 20030714 <--
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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

CA 2492540 A1 20040205 CA 2003-2492540 20030714 <-AU 2003256539 A1 20040216 AU 2003-256539 20030714 <-EP 1546149 A1 20050628 BR 2003-13070 20030714 <-EP 1546149 A1 20050629 EP 2003-771620 20030714 <--

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OS CASREACT 140:146170; MARPAT 140:146170 RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L6 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
- AN 1997:101617 CAPLUS DN 126:108935

OREF 126:20967a,20970a

- TI Method of producing a solid dispersion of a poorly water-soluble drug
- IN Butler, James Matthew
- PA Glaxo Group Limited, UK; Butler, James Matthew PCT Int. Appl., 27 pp. SO

CODEN: PIXXD2

DT Patent LA English

FAN.CNT 1 KIND DATE APPLICATION NO. DATE PATENT NO. WO 9638131 A1 19961205 WO 1996-EP2299 19960530 <--W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,

IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN AU 9660026 A 19961218 AU 1996-60026 19960530 <--EP 828479 A1 19980318 EP 1996-917457 19960530 <--

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EP 828479
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US 5985326 A 19991116 US 1998-952938
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WO 1996-EP2299 W 19960530 <---
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           ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
 AΝ
           2004:101164 CAPLUS
 DN
          140:146170
 ТΤ
          Preparation of tetrahydro-β-carboline diastereomers by modified
           Pictet-Spengler reaction
 IN
           Orme, Mark W.; Martinelli, Michael John; Doecke, Christopher William;
            Pawlak, Joseph Matthew; Chelius, Erik Christopher
 PΑ
           Lilly Icos, LLC, USA
 SO
           PCT Int. Appl., 37 pp.
           CODEN: PIXXD2
 DT
           Patent
 LA
          English
 FAN.CNT 1
              ALENI NO. KIND DATE
                                                     PATENT NO.
           WO 2004011463
 ΡI
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US 20060004203 A1 20060105 US 2005-521393 20050721 <--

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ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
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   1997:101617 CAPLUS
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    126:108935
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TI Method of producing a solid dispersion of a poorly water-soluble drug
IN Butler, James Matthew
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    Glaxo Group Limited, UK; Butler, James Matthew
SO
    PCT Int. Appl., 27 pp.
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    2004:101164 CAPLUS
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     Preparation of tetrahydro-β-carboline diastereomers by modified
     Pictet-Spengler reaction
IN
    Orme, Mark W.; Martinelli, Michael John; Doecke, Christopher William;
    Pawlak, Joseph Matthew; Chelius, Erik Christopher
    Lilly Icos, LLC, USA
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```
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WO 2003-US2039 W 20030714 S--

WO 2003-US2039 W 20
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          2003:784105 CAPLUS
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          The discovery of tadalafil: a novel and highly selective PDE5 inhibitor.
          2: 2,3,6,7,12,12a-hexahydropyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-
          dione analogue
          Daugan, Alain; Grondin, Pascal; Ruault, Cecile; Le Monnier de Gouville,
ΑU
          Anne-Charlotte; Coste, Herve; Linget, Jean Michel; Kirilovsky, Jorge;
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CS
         Centre de Recherches, Laboratoire GlaxoSmithKline, Les Ulis, 91951, Fr.
SO
         Journal of Medicinal Chemistry (2003), 46(21), 4533-4542
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PB American Chemical Society
DT Journal
LA English
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         Preparation of pyrazinopyridoindolediones and related compounds as
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IN
          Orme, Mark W.; Sawyer, Jason Scott; Schultze, Lisa M.
          Lilly Icos LLC, USA
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AT 360422 T 20070515 AT 2002-776555
ES 2286291 T3 20071201 ES 2002-776555
US 20040162291 A1 20040819 US 2003-479352
US 7105506 B2 20060912
MX 2003PA11080 A 20040708 MX 2003-PA11080
US 2001-296041P P 20010605 <--

WO 2002-US13703 W 20020502 <--
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      2002:353456 CAPLUS
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      136:369739
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      Preparation of pyrazino[1',2':1,6]pyrido[3,4-b]indole derivatives as
      phosphoesterase inhibitors for use as therapeutic agents
     Orme, Mark W.; Sawyer, Jason Scott; Schultze, Lisa M.
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     Lilly Icos, LLC, USA
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OS MARPAT 136:369739

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L5 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN
- AN 2002:10475 CAPLUS
- DN 136:85828
- ${\tt TI} \quad {\tt Preparation \ of \ pyrazinopyridoindolediones \ as \ cyclic \ {\tt GMP \ phosphodiesterase \ inhibitors}$
- IN Orme, Mark W.; Sawyer, Jason Scott; Schultze, Lisa M.; Daugan, Alain Claude-Marie; Gellibert, Francoise
- PA Lilly Icos LLC, USA
- SO PCT Int. Appl., 81 pp. CODEN: PIXXD2
- DT Patent
- LA English
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     2000:785898 CAPLUS
     133:329627
    Tetracyclic cGMP-specific phosphodiesterase inhibitors and their use in
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     Daugan, Alain Claude Marie; Gellibert, Francoise
     Icos Corp., USA
    U.S., 30 pp., Cont.-in-part of PCT 9519978.
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1.5
   ANSWER 8 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN
AN
   1997:215760 CAPLUS
    126:203727
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OREF 126:39307a,39310a
    Use of cGMP-phosphodiesterase inhibitors to treat impotence
IN
    Daugan, Alain Claude-Marie
PA
    Laboratoire Glaxo Wellcome S.A., Fr.; Daugan, Alain Claude-Marie
SO
    PCT Int. Appl., 27 pp.
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```

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A 19990126 BR 1996-9758 A2 19990528 HU 1999-65

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IE, SI, LT, LV, FI CN 1195290 A 19981007

В

CN 1112928

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```
HU 9900065 A3 19991129
JP 11509221 T 19990817 JP 1996-506248 19960711 <--
LT 122870 A 20020310 IL 1996-122870 19960711 <--
CZ 288686 B6 20020313 CZ 1998-33 19960711 <--
RU 2181288 C2 20020420 RU 1998-102398 19960711 <--
PL 185737 B1 20030731 PL 1996-32449 19960711 <--
PL 185999 B1 20030930 PL 1996-327495 19960711 <--
CN 1513452 A 20040721 CN 2002-2002155791 19960711 <--
CN 1513452 A 20040721 CN 2002-2002155791 19960711 <--
CN 284141 B6 20041005 SK 1998-39 19960711 <--
SK 284149 B6 2005005 SK 2003-1239 19960711 <--
PT 839040 T 20060929 PT 1996-923985 19960711 <--
ES 2267111 T 3 20070301 ES 1996-923985 19960711 <--
NO 9800153 A 19980310 ND 1998-153 19980711 <--
US 6140329 A 20001031 US 1998-981999 19980310 <--
US 6140329 A 20001031 US 1998-981999 19980310 <--
US 6143746 A 20001107 US 1998-154051 19980528 <--
US 6608065 B1 20030819 US 2000-573905 20000518 <--
CZ 289832 B6 20020417 CZ 2000-3428 20000919 <--
KMX 2002PA09987 A 20030228 MX 2002-PA9987 20021010 <--
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GB 1994-1090 A 19940711 <--
WO 1995-EP183 A2 19950714 <--
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WO 1996-EP3025 A2 19960711 <--
WO 1996-EP3024 W 19960711 <--
US 1998-981989 A1 19960711 <--
US 1998-981989 A1 19980711 <--
US 1998-981989 A1 19980711 <--
US 1998-98198 A1 19980711 <--
US 1998-981989 A1 19980711 <--
US 1
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     L5 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN
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     OREF 126:20967a,20970a
     TI Method of producing a solid dispersion of a poorly water-soluble drug
     IN Butler, James Matthew
     PA
                            Glaxo Group Limited, UK; Butler, James Matthew
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```
L5 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN
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AN 1995:986316 CAPLUS

DN 124:55977

OREF 124:10581a,10584a

TI Preparation of pyrazinopyridoindolediones as inhibitors of cyclic guanosine 3',5'-monophosphate specific phosphodiesterase

IN Daugan, Alain Claude-Marie

PA Laboratoires Glaxo S.A., Fr.

SO PCT Int. Appl., 87 pp.

CODEN: PIXXD2

DT Patent

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|------|---------|--|
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| HR | 950023
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| MU
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| | R: AT | | CH, | DE, | DK, | ES, | FR, | GB, | GR | , IE | , IT, | LI, | LU, | MC, | NL, | PT, | SE |
| | 1143963 | | | A | | 1997 | 0226 | | CN | 1995 | -1920 | 78 | | 19 | 9950: | 119 | < |
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| JP | 0950811 | 3 | | T | | 1997 | 0819 | | JP | 1995 | -5193 | 39 | | 19 | 950: | 119 | < |
| JP | 3808095 | | | B2 | | 2006 | 0809 | | | | | | | | | | |
| | 9506559 | | | A | | 1997 | 1028 | | BR | 1995 | -6559 | | | 19 | 9950 | 119 | < |
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| | 286566 | | | B6
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| | | | | | | 2002 | | | RO | 1996- | -1454 | | | 15 | 9950 | | |
| | 183942 | | | A1 | | 2000 | | | IN | 1995 | -3155
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| | 11690 | | | B | | 1997 | | | LV | 1996 | -228 | | | 13 | 9960. | | |
| | 5859006 | | | A | | 1999 | | | US | 1996- | -6693 | 89 | | 19 | 9960 | | |
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| AU | 9873912 | | | A | | 1998 | 0820 | | AU | 1998- | -7391 | 2 | | 19 | 9980 | 526 | < |
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2001 | 0004 | | CIA | 1730. | 1221 | , , | | 1; | ,,,,,,, | -01 | ` - |
| CIA | 10/0492 | | | В | | 2001 | 0505 | | | | | | | | | | |

```
HK 1013286 A1 20000519 HK 1998-114572 US 6127542 A 20001003 US 1999-399667 US 6369059 B1 20020409 US 2000-633431 US 20020119976 A1 20020829 US 2002-68114
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   2003:784105 CAPLUS
    140:12456
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    The discovery of tadalafil: a novel and highly selective PDE5 inhibitor.
    2: 2,3,6,7,12,12a-hexahydropyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-
     dione analogue
AU
    Daugan, Alain; Grondin, Pascal; Ruault, Cecile; Le Monnier de Gouville,
    Anne-Charlotte; Coste, Herve; Linget, Jean Michel; Kirilovsky, Jorge;
    Hyafil, François; Labaudiniere, Richard
    Centre de Recherches, Laboratoire GlaxoSmithKline, Les Ulis, 91951, Fr.
CS
SO Journal of Medicinal Chemistry (2003), 46(21), 4533-4542
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PB American Chemical Society
DT Journal
LA.
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             THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
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    2002:946116 CAPLUS
AN
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     138:24726
    Preparation of pyrazinopyridoindolediones and related compounds as
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IN
    Orme, Mark W.; Sawyer, Jason Scott; Schultze, Lisa M.
PA
    Lilly Icos LLC, USA
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```
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6 A1 20021216 AU 2002-308546 20020502 <--
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AN
    2002:353456 CAPLUS
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    136:369739
    Preparation of pyrazino[1',2':1,6]pyrido[3,4-b]indole derivatives as
    phosphoesterase inhibitors for use as therapeutic agents
IN Orme, Mark W.; Sawyer, Jason Scott; Schultze, Lisa M.
PA Lilly Icos, LLC, USA
SO PCT Int. Appl., 66 pp.
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PΙ
```

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| | CA | 2427 | 573 | | | | | | | | | | | | | | 0011 | 009 < |
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```
ES 2271080
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```

OS MARPAT 136:369739

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L7 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN
- AN 2002:10475 CAPLUS

DN 136:85828

- ${\tt TI}$ $\,$ ${\tt Preparation}$ of pyrazinopyridoindolediones as cyclic GMP phosphodiesterase inhibitors
- IN Orme, Mark W.; Sawyer, Jason Scott; Schultze, Lisa M.; Daugan, Alain Claude-Marie; Gellibert, Francoise
- PA Lilly Icos LLC, USA
- SO PCT Int. Appl., 81 pp.
- CODEN: PIXXD2 DT Patent
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- LA English

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, NZ, PL, PT, |
| | KZ, MD, RU
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CH, CY, DE, DK, ES, FI
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| | | | CA 2001-2412594 | |
| | AU 2001061707 | A 20020108 | AU 2001-61707 | 20010515 < |
| | | | EP 2001-935629 | 20010515 < |
| | EP 1366049 | | | |
| | | | GB, GR, IT, LI, LU, NL | , SE, MC, PT, |
| | | LV, FI, RO, MK, | | |
| | JP 2004513072 | T 20040430 | JP 2002-505780 | 20010515 < |
| | AT 330958 | T 20060715 | AT 2001-935629 | 20010515 < |
| | | | ES 2001-935629 | |
| | US 20030225094
US 6911542 | | US 2002-297682 | 20021206 < |
| | MX 2002PA12472 | | MX 2002-PA12472 | 20021216 |
| DDAT | US 2000-213647P | | | 20021216 < |
| ENAT | WO 2001-US15935 | | | |
| os | MARPAT 136:85828 | 11 20010313 | | |
| OS | MARPAT 136:85828 | | | |

- L7 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN
- AN 2001:904172 CAPLUS
- DN 136:20091
- TI Preparation of tetracyclic diketopiperazine compounds as PDE5 inhibitor
- IN Orme, Mark W.; Daugan, Alain Claude-Marie; Bombrun, Agnes
- PA Lilly Icos Llc, USA
- SO PCT Int. Appl., 55 pp. CODEN: PIXXD2
- DT Patent

```
LA English
```

| PAN . CN I | TENT NO. | | KIN | D | DATE | | | APPL | ICAT | ION I | NO. | | D | ATE | | |
|------------|----------|-------|-----|-----|------|------|------|------|------|-------|------|-----|-----|-----|------|-------|
| | | | | | | | | | | | | | | - | | |
| PI WO | 2001094 | 347 | | A1 | | 2001 | 1213 | | WO 2 | 001- | US15 | 937 | | 2 | 0010 | 515 < |
| | W: AE | , AG, | AL, | AM, | AT, | AU, | AZ, | BA, | BB, | BG, | BR, | BY, | BZ, | CA, | CH, | CN. |
| | CO | CR, | CU, | CZ. | DE. | DK. | DM. | DZ. | EC. | EE. | ES. | FI. | GB, | GD, | GE, | GH, |
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| | LS | LT. | LU, | LV. | MA, | MD, | MG, | MK, | MN. | MW. | MX, | MZ, | NO. | NZ, | PL, | PT. |
| | RO | , RU, | SD, | SE, | SG, | SI, | SK, | SL, | TJ, | TM, | TR, | TT, | TZ, | UA, | UG, | US, |
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| | RW: GH | , GM, | KE, | LS, | MW, | MZ, | SD, | SL, | SZ, | TZ, | UG, | ZW, | AT, | BE, | CH, | CY, |
| | DE | , DK, | ES, | FI, | FR, | GB, | GR, | IE, | IT, | LU, | MC, | NL, | PT, | SE, | TR, | BF, |
| | BJ | , CF, | CG, | CI, | CM, | GA, | GN, | GW, | ML, | MR, | NE, | SN, | TD, | TG | | |
| CA | 2411010 | | | A1 | | 2001 | 1213 | | CA 2 | 001- | 2411 | 010 | | 2 | 0010 | 515 < |
| EP | 1289990 | | | A1 | | 2003 | 0312 | | EP 2 | 001- | 9459 | 61 | | 2 | 0010 | 515 < |
| | R: AT | , BE, | CH, | DE, | DK, | ES, | FR, | GB, | GR, | IT, | LI, | LU, | NL, | SE, | MC, | PT, |
| | | , SI, | | | | RO, | MK, | CY, | AL, | TR | | | | | | |
| JP | 2004533 | 402 | | T | | 2004 | 1104 | | JP 2 | 002- | 5018 | 96 | | 2 | 0010 | 515 < |
| | 2003015 | | | | | | | | | | | | | | | 122 < |
| | 2002PA1 | | | | | 2003 | | | | 002- | PA12 | 054 | | 2 | 0021 | 205 < |
| | 2000-21 | | | | | 2000 | | | - | | | | | | | |
| | 2001-US | | | W | | 2001 | 0515 | <- | - | | | | | | | |
| | RPAT 136 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L7 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN
- AN 2000:785898 CAPLUS
- DN 133:329627
- TI Tetracyclic cGMP-specific phosphodiesterase inhibitors and their use in disease treatment
- IN Daugan, Alain Claude Marie; Gellibert, Françoise
- PA Icos Corp., USA
- SO U.S., 30 pp., Cont.-in-part of PCT 9519978.
- CODEN: USXXAM
- DT Patent

| LA | Enc | lish |
|------|-----|------|
| FAN. | CNT | 4 |

| PAN. | PATENT NO. KIND DATE APPLICATION NO. DATE | | | | | | | | | | | | | | | | | |
|------|---|-------|-----|-----|-------|------|------|-------|-------|-------|------|------|------|------|-----|-------|------|-------|
| | | ENT I | | | | | | | | | | | | | | | ATE | |
| | | | | | | | _ | | | | | | | | | | | |
| PI | US | 6143 | 746 | | | A | | 2000 | 1107 | | US 1 | 998- | 1540 | 51 | | 1 | 9980 | 916 < |
| | WO | 9519 | 978 | | | A1 | | 1995 | 0727 | | WO 1 | 995- | EP18 | 3 | | 11 | 9950 | 119 < |
| | | | | | | | | BR, | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | KG, | | | | | | | | | | |
| | | | MN, | MW, | MX, | ΝL, | NO, | NZ, | PL, | PT, | RO, | RU, | SD, | SE, | SI, | SK, | ТJ, | TT, |
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| | | | | | | | | BJ, | | | | | | | | | | |
| | | | | | / | 02, | / | 20, | 02, | 00, | 01/ | 0117 | 011/ | 0117 | , | 11117 | , | 01.7 |
| | TD, TG
WO 9703675 | | | | | | | | | | | | | | | | | |
| | WO | | | | | | | | | | | | | | | | | |
| | | W: | AL, | AM, | ΑT, | ΑU, | ΑZ, | BB, | BG, | BR, | BY, | CA, | CH, | CN, | CZ, | DE, | DK, | EE, |
| | | | ES, | FI, | GB, | GE, | HU, | IL, | IS, | JP, | KE, | KG, | KP, | KR, | KZ, | LK, | LR, | LS, |
| | | | LT. | LU. | LV. | MD. | MG. | MK, | MN. | MW. | MX. | NO. | NZ. | PL. | PT. | RO. | RU. | SD. |
| | | | SE, | | | , | , | , | , | , | , | | , | , | , | , | , | , |
| | | DW. | | | 3.657 | CD | 07 | UG, | 7. T | DE | CII | DE | DIV | E.C | ET | ED | CD | CD |
| | | IVW: | | | | | | | | | | | | | | | GD, | GR, |
| | | | | | | | | PT, | | | | | | | | | | |
| | WO | 9703 | 985 | | | A1 | | 1997 | 0206 | | WO 1 | 996- | EP30 | 25 | | 1 | 9960 | 711 < |
| | | W: | AL, | AM, | AT, | AU, | AZ, | BB, | BG, | BR, | BY, | CA, | CH, | CN, | CZ, | DE, | DK, | EE, |
| | | | | | | | | IL, | | | | | | | | | | |
| | | | | | | | | MK, | | | | | | | | | | |
| | | | | | LIV, | riD, | 110, | rary, | rara' | LIVE, | ran, | 140, | 1421 | ты, | , | 110, | 110, | 00, |
| | | | SE, | 56 | | | | | | | | | | | | | | |

```
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,
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          US 6025494
                                             A 20000215 US 1998-133078 19980812 <--
          CA 2340636
                                                            20000323
                                                                                 CA 1999-2340636
                                                                                                                                19990826 <--
                                                A1
          CA 2340636
                                                          20070807
                                                C
          EP 1113800
                                                A1
                                                           20010711 EP 1999-945201
                                                                                                                                19990826 <---
                 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
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                                        T 20020806
                                                                                  JP 2000-569812
          JP 2002524516
                                                                                                                                19990826 <--
          US 6127542
                                                A
                                                           20001003 US 1999-399667
                                                                                                                               19990921 <--
                                               B1 20020409 US 2000-633431
          US 6369059
                                                                                                                               20000807 <--
        CZ 289832 B6 20020417 CC US 20020119976 A1 20020829 US 05 6784179 B2 20040815 JT 10 20060091 A 20070810 TI 10 200600091 A 20070810 TI 10 200600091 A 20070810 TI 10 200600091 A 20070810 TI CB 1994-1090 A 19940121 <--- CB 1995-14464 A 19950714 <-- CB 1995-14464 A 19950714 <-- CB 1995-14465 A 19950714 <-- CM 1996-EB3024 A2 19960711 <-- CM 1996-EB3025 A2 19960711 <-- TI 1996-EB3025 A3 19950119 <-- TI 1995-19339 A3 19950119 <-- TI 1995-19339 A3 19950119 <-- CM 1996-EB3025 A3 19950113 <-- CM 1996-EB3033 A3 19950111 <-- CM 1996-EB3034 A3 19950111 <-- CM 1996-EB3044 A3 19960111 <-- CM 1996-
          CZ 289832
                                              B6 20020417 CZ 2000-3428
                                                                                                                               20000919 <--
                                                           20020829 US 2002-68114
                                                                                                                               20020205 <--
                                                                                 JP 2004-125881
                                                                                                                               20040421 <--
                                                                                  IN 2006-DE91
                                                                                                                              20060112 <--
PRAI GB 1994-1090
                                              A3
         US 1996-669389 A3
US 1998-133078 A1
US 1998-154051 A
                                                         19960716
                                                            19980812
                                                            19980916
          WO 1999-US19466
                                                          19990826 <--
                                               W
         US 1999-399667
                                               A1 19990921 <--
         US 2000-633431
                                                A1
                                                            20000807 <--
        MARPAT 133:329627
OS
RE.CNT 41
                          THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD
                          ALL CITATIONS AVAILABLE IN THE RE FORMAT
L7 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1997:215760 CAPLUS
DN
        126:203727
OREF 126:39307a,39310a
        Use of cGMP-phosphodiesterase inhibitors to treat impotence
IN Daugan, Alain Claude-Marie
PA
      Laboratoire Glaxo Wellcome S.A., Fr.; Daugan, Alain Claude-Marie
SO
      PCT Int. Appl., 27 pp.
         CODEN: PIXXD2
        Patent
I.A
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FAN.CNT 4
         PATENT NO. KIND DATE APPLICATION NO. DATE
                                               ----
                                               A1 19970206 WO 1996-EP3024 19960711 <--
         WO 9703675
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                 RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,
                         IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA
          CA 2226784
                                               A1 19970206
                                                                                  CA 1996-2226784
                                                                                                                                19960711 <--
```

CA 2226784

AU 9664191

AU 704955 EP 839040

EP 839040

С

20030708

A 19970218 AU 1996-64191 B2 19990513 A1 19980506 EP 1996-923985 B1 20060531 19960711 <--

19960711 <--

```
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
                            IE, SI, LT, LV, FI
CN 1195290 A 19981007 CN 1996-196723
CN 1112928 B 20030702
BR 9609758 A 19990126 BR 1996-9758
HU 9900065 A2 19990128 HU 1999-65
HU 9900065 A3 19991129
JP 11509221 T 19990817 JP 1996-506248
LU 1996-122870
CZ 289686 B6 20020313 CZ 1998-33
RU 2181288 C2 20020420 RU 1998-102298
PL 185737 B1 20030731 PL 1996-324495
PL 185737 B1 20030731 PL 1996-324495
PL 185737 B1 20030731 PL 1996-324495
CX 1513452 A 20040721 CN 2002-2002155791
SK 284141 B6 20041005 SK 2003-1259
SK 284141 B6 20041005 SK 2003-1259
AT 327756 T 20060615 AT 1996-923985
PT 839040 T 20060615 AT 1996-923985
ES 2267111 T3 20070301 ES 1996-923985
US 6140329 A 20040731 VS 1998-38
NO 314685 B1 20030505
US 6140329 A 20040101 US 1998-981989
HK 1005363 A1 19980310 NO 1998-153
NO 314685 B1 20030505
US 6140329 A 20001031 US 1998-981989
HK 1005363 A1 20061201 HK 1998-104622
US 6608065 B1 20030805
US 6143746 A 20001107 US 1998-154051
US 6608065 B1 20030819
HX 2002PA09987 A 20030228 MX 2002-PA9987
PRAI GB 1995-14464 A 19950714 <--
GB 1995-14465 A 19950714 <--
GB 1995-14465 A 19950714 <--
CZ 1998-33 A3 19960711 <--
WO 1996-EP3025 A2 19960711 <--
WO 1996-EP3025 A2 19960711 <--
WO 1996-EP3024 W 19960711 <--
WO 1996-EP3025 A2 19960711 <--
WO 1998-981989 A1 19980310 <--
           CN 1195290 A 19981007
                                                                                       CN 1996-196723
                                                                                                                                      19960711 <--
                                                                                                                                      19960711 <--
                                                                                                                                      19960711 <--
                                                                                                                                      19960711 <--
                                                                                                                                      19960711 <--
                                                                                                                                      19960711 <--
                                                                                                                                      19960711 <--
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                                                                                                                                      19960711 <--
                                                                                                                                       19960711 <--
                                                                                                                                       19960711 <--
                                                                                                                                      19960711 <--
                                                                                                                                       19960711 <--
                                                                                                                                       19960711 <--
                                                                                                                                       19980113 <--
                                                                                                                                      19980310 <--
                                                                                                                                       19980528 <--
                                                                                                                                       19980916 <--
                                                                                                                                       20000518 <--
                                                                                                                                      20000919 <-- 20021010 <--
  OS
          MARPAT 126:203727
  L7 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN
  AN 1995:986316 CAPLUS
  DN
           124:55977
  OREF 124:10581a,10584a
  TI Preparation of pyrazinopyridoindolediones as inhibitors of cyclic
           guanosine 3',5'-monophosphate specific phosphodiesterase
  IN Daugan, Alain Claude-Marie
  PA Laboratoires Glaxo S.A., Fr.
  SO PCT Int. Appl., 87 pp.
           CODEN: PIXXD2
        Patent
  DT
  LA English
  FAN.CNT 4
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           PATENT NO.
                   5519978 A1 19950727 WO 1995-EP183 19950119 <--
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI,
  ΡI
           WO 9519978
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                           MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN,
```

B1 20001031 HR 1995-23

20000101 TW 1995-84100415 19950118 <--

19950117 <--

TD, TG HR 950023 B

| | CA 2181377 | | A1 | 19950727 | CA | 1995-2181377 | | 19950119 < |
|------|----------------------------------|-------|----------|----------------------|--------|----------------|-----|----------------|
| | CA 2181377 | | C | 20020528 | CII | 1333 2101377 | | 13330113 (|
| | AU 9515748 | | A | 19950808 | ΔII | 1995-15748 | | 19950119 < |
| | AU 689205 | | B2 | 19980326 | 110 | 1333 13710 | | 13330113 (|
| | ZA 9500424 | | A | 19950927 | 7.A | 1995-424 | | 19950119 < |
| | EP 740668 | | A1 | 19961106 | | 1995-907565 | | 19950119 < |
| | EP 740668 | | В1 | 19980729 | | 2000 00.000 | | ********* |
| | | CH. I | | | GB, GI | R. IE. IT. LI. | LU. | MC, NL, PT, SE |
| | CN 1143963 | J., | A | 19970226 | | 1995-192078 | , | 19950119 < |
| | CN 1045777 | | В | 19991020 | | | | |
| | HU 74943 | | A2 | 19970328 | HU | 1996-1982 | | 19950119 < |
| | HU 222494 | | В1 | 20030728 | | | | |
| | JP 09508113 | | T | 19970819 | JP | 1995-519339 | | 19950119 < |
| | JP 3808095 | | B2 | 20060809 | | | | |
| | BR 9506559 | | A | 19971028 | BR | 1995-6559 | | 19950119 < |
| | AT 169018 | | T | 19980815 | AT | 1995-907565 | | 19950119 < |
| | IL 112384 | | A | 19980816 | IL | 1995-112384 | | 19950119 < |
| | ES 2122543 | | Т3 | 19981216 | ES | 1995-907565 | | 19950119 < |
| | RU 2142463 | | C1 | 19991210 | RU | 1996-117127 | | 19950119 < |
| | CZ 286566 | | В6 | 20000517 | | 1996-2116 | | 19950119 < |
| | SK 280879 | | B6 | 20000814 | SK | 1996-940 | | 19950119 < |
| | PL 179744 | | В1 | 20001031 | PL | 1995-315559 | | 19950119 < |
| | RO 117794 | | B1 | 20020730 | RO | 1996-1454 | | 19950119 < |
| | IN 183942 | | A1 | 20000520 | IN | 1995-DE77 | | 19950120 < |
| | LV 11690 | | В | 19970620 | LV | 1996-228 | | 19960710 < |
| | US 5859006 | | Α | 19990112 | US | 1996-669389 | | 19960716 < |
| | FI 9602927 | | A | 19960719 | FI | 1996-2927 | | 19960719 < |
| | FI 113176 | | B1 | 20040315 | | | | |
| | NO 9603015 | | A | 19960909 | NO | 1996-3015 | | 19960719 < |
| | NO 306465 | | В1 | 19991108 | | | | |
| | AU 9873912 | | A | 19980820 | AU | 1998-73912 | | 19980626 < |
| | AU 707055 | | B2 | 19990701 | | | | |
| | US 6025494 | | A | 20000215 | US | 1998-133078 | | 19980812 < |
| | US 6143746 | | Α | 20001107 | | 1998-154051 | | 19980916 < |
| | CN 1224720 | | A | 19990804 | CN | 1998-122779 | | 19981201 < |
| | CN 1070492 | | В | 20010905 | | | | |
| | HK 1013286 | | A1 | 20000519 | | 1998-114572 | | 19981222 < |
| | US 6127542 | | A | 20001003 | | 1999-399667 | | 19990921 < |
| | US 6369059 | | В1 | 20020409 | | 2000-633431 | | 20000807 < |
| | US 20020119976 | | A1 | 20020829 | US | 2002-68114 | | 20020205 < |
| | US 6784179 | | B2 | 20040831 | | | | |
| | JP 2004217674 | | A | 20040805 | | 2004-125881 | | 20040421 < |
| | IN 2006DE00091 | | A | 20070810 | | 2006-DE91 | | 20060112 < |
| PRAI | GB 1994-1090 | | A | 19940121 | < | | | |
| | JP 1995-519339 | | A3 | 19950119 | | | | |
| | WO 1995-EP183 | | W | 19950119 | | | | |
| | IN 1995-DE85 | | A3 | 19950123 | | | | |
| | GB 1995-14464 | | A | 19950714 | | | | |
| | GB 1995-14465
WO 1996-EP3024 | | A
A2 | 19950714 | | | | |
| | WO 1996-EP3024
WO 1996-EP3025 | | A2
A2 | 19960711
19960711 | < | | | |
| | US 1996-669389 | | A3 | 19960716 | | | | |
| | US 1998-133078 | | A1 | 19980812 | | | | |
| | US 1999-399667 | | A1 | 19990921 | < | | | |
| | US 2000-633431 | | A1 | 20000807 | < | | | |
| os | MARPAT 124:5597 | 7 | | 2000007 | 1 | | | |
| 00 | 121.5557 | | | | | | | |

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=> d 19
     ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN
     2004:101164 CAPLUS
    140:146170
    Preparation of tetrahydro-β-carboline diastereomers by modified
    Pictet-Spengler reaction
TN
    Orme, Mark W.; Martinelli, Michael John; Doecke, Christopher William;
    Pawlak, Joseph Matthew; Chelius, Erik Christopher
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    CODEN: PIXXD2
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LA
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                        A1 20040205 CA 2003-2492540
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20050629

| | | IN | 2005Ct | 100099 | A | 20070330 | IN | 2005-CN99 | 20050131 < |
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| | | US | 200600 | 004203 | A1 | 20060105 | US | 2005-521393 | 20050721 < |
| | | IN | 2006CN | 104329 | A | 20070629 | IN | 2006-CN4329 | 20061124 < |
| | | IN | 2006CI | 104328 | A | 20070831 | IN | 2006-CN4328 | 20061124 < |
| P | RAI | US | 2002-4 | 100386P | P | 20020731 | < | | |
| | | US | 2003-4 | 160161P | P | 20030403 | < | | |
| | | WO | 2003-0 | JS22039 | W | 20030714 | | | |
| | | IN | 2005-0 | N99 | A3 | 20050131 | | | |
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RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s 15 and alcohol

287107 ALCOHOL 183368 ALCOHOLS

435104 ALCOHOL

(ALCOHOL OR ALCOHOLS)

614788 ALC

198191 ALCS

713764 ALC (ALC OR ALCS)

890646 ALCOHOL

(ALCOHOL OR ALC) L10 0 L5 AND ALCOHOL

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COST IN U.S. DOLLARS SINCE FILE TOTAL SESSION FULL ESTIMATED COST 59.11 237.68

STN INTERNATIONAL LOGOFF AT 16:53:43 ON 16 JUN 2008